INTERNATIONAL SEARCH REPORT

International application No. PCT/JP02/09569

A. CLASSIFICATION OF SUBJECT MATTER		
A. CLASSIFICATION OF SUBJECT MATTER Int.Cl ⁷ H01L29/73		
According to International Patent Classification (IPC) or to both	national classification and IDC	
B. FIELDS SEARCHED	- material crassification and if C	
Minimum documentation searched (classification system follows	ed by classification symbols)	
I INC.CI HUILZI/33-21/331, H01L29	/68-29/737, H01L21/302,	
H01L21/306-21/3065, H01L21/308		
Documentation searched other than minimum documentation to Jitsuyo Shinan Koho 1922–1990	the extent that such documents are included	in the fields searched
Kokai Jitsuyo Shinan Koho 1971-2002		no 1994-2002 no 1996-2002
Electronic data base consulted during the international search (no	ame of data base and, where practicable, sea	arch terms used)
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category* Citation of document, with indication, where	appropriate, of the relevant passages	Relevant to claim No.
	Electric Industrial	1-7
Co., Ltd.),		1-/
20 September, 2000 (20.09.00 Full text; Figs. 1 to 17	0),	
& JP 2000-332025 A	& JP 2000-332025 A	
Full text; Figs. 1 to 17		
	P 2002-16160 A W 460978 A	
Y JP 5-175209 A (KABUSHIKI KA	JP 5-175209 A (KABUSHIKI KAISHA TOSHIBA),	
13 July, 1993 (13.07.93), Full text; Figs. 1 to 24		
(Family: none)		
X Further documents are listed in the continuation of Box C.	See patent family annex.	
* Special categories of cited documents: "A" document defining the general state of the anti-title in the state of the state	"T" later document published after the inter	national filing data or
considered to be of particular relevance	priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention	
"E" earlier document but published on or after the international filing date	X document of particular relevance: the cl	laimed invention connot be
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other	considered novel or cannot be considered step when the document is taken alone	
special reason (as specified)	"Y" document of particular relevance; the cl considered to involve an inventive step	when the document is
means	combined with one or more other such of combination being obvious to a person	documents such
'P' document published prior to the international filing date but later than the priority date claimed	"&" document member of the same patent fa	mily
Date of the actual completion of the international search	Date of mailing of the international search	report
18 December, 2002 (18.12.02)	14 January, 2003 (14	4.01.03)
No.	·	
Name and mailing address of the ISA/ Japanese Patent Office	Authorized officer	·
Facsimile No.	Telephone No.	
Form PCT/ISA/210 (second sheet) (July 1998)		

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Internati nal application N .
PCT/JP02/09569

Category*	Citation of decument with 1. 1.	
Alegory* Y	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
ĭ	JP 4-184937 A (Oki Electric Industry Co., Ltd.), 01 July, 1992 (01.07.92), Full text; Figs. 1 to 3 (Family: none)	
Y	JP 2001-35858 A (Matsushita Electric Industrial Co., Ltd.), 09 February, 2001 (09.02.01), Full text; Figs. 1 to 5 (Family: none)	3
Y	EP 551185 A2 (KABUSHIKI KAISHA TOSHIBA), 14 July, 1993 (14.07.93), Full text; Figs. 1 to 15 & JP 5-182980 A Full text; Figs. 1 to 15	3
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A	<pre>JP 4-245438 A (NEC Corp.), 02 September, 1992 (02.09.92), Full text; Figs. 1 to 6 (Family: none)</pre>	1-7
A	JP 6-349832 A (Kawasaki Steel Corp.), 22 December, 1994 (22.12.94), Full text; Figs. 1 to 3 (Family: none)	1-7
A .	JP 6-177119 A (KABUSHIKI KAISHA TOSHIBA), 24 June, 1994 (24.06.94), Full text; Figs. 1 to 9 (Family: none)	2